

# Green Audit Report

(2017-18 To 2021-22)

Nashik Shikshan Prasarak Mandal, Nashik

## Art's & Commerce Mahavidyalaya, Igatpuri.

Nashik- 422402 Maharashtra, India



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The college started functioning in the academic year 2012-13. The college has started a movement of education in the tribal areas of Igatpuri. The main purpose of college to create awareness among student of higher education and the need of technology in the present era. The college has been established so the students from tribal areas and rural areas are not deprived of higher education. The college has affiliation with the Savitribai Phule Pune University in the year 2012. It has been two programme B.A and B.Com. With able and visionary guidance of the office bearers of the Nashik Shikshan Prasarak Mandal, its hard working, committed staff and needy students, college is making mark in every sphere of academic and extra-curricular aspects of all the stake holders.

The college has been running various student centric activities. Competitive Examination Guidance Workshop, Soft Skill Workshop, Nirbhay Kanya Abhiyan and Bahishal lecture series are among these activities. The College has registered its name in Limca Book of Record for "Suryanamskar Ek Avishkar".

The college is trying to develop green campus system for environmental conservation and sustainability.

The college administration works on the several facets of green campus including water conservation, tree plantation, waste management, paperless work, alternative energy and mapping of biodiversity.

  
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## Executive Summary

Nashik Shikshan Prasarak Mandal's Nashik ,Arts & Commerce Mahavidyalaya, Igatpuri deeply believes in Environmental care and understands its importance in the present world. Because of the environmental burden, it is necessary to plant trees in the surrounding area, so that human life will be saved from the hazards arising out of the depletion of plants and trees.

The purpose of the Green Audit was to ensure that the Green Campus Programme is actively promoted by the college. Various projects are run by the College i.e. Earth worm Project, of Tree Plantation, Best out of waste workshop for the students, Paperless Drive, Water Conservation, etc. Yoga can improve the physical and mental health, while preparing the mind and body for long-term health. Hence, Yoga Classes and workshops are conducted for the students, staff and for the society.

## Introduction

Green audit can be a useful tool for a college to determine how and where they are using the most energy or water or resource; the college can then consider how to implement changes and make savings.

Green Audit can be defined as systematic identification pontificating ,recording , reporting and analysis of components of environment diversity, " The Green Audit aims to analyse environmental practices within and outside the campus" which will have an impact on the eco friendly ambience it is initiated with motive of inspecting the work conducting within the organization whose exercise can pause risk to the health of inhabitant and the environment through green audit, once gets a directions as how to improve the condition of environment and there are various factors that have determine the growth of carrying out the green audit.



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## Objectives of the Study

The main objectives of the Green Audit are to promote the environment management and conservation in the college campus. The purpose of the audit is to identify and quantify, describe and prioritize frame work of environment sustainability in compliance with the applicable regulations policies and standards. The main objectives of carrying out green audit are :

- 1) To introduce and aware students to real concerns of environment and sustainability.
- 2) To secure the environment and cut down the threats posed to human health by analysing the pattern and extends of resource used on the campus.
- 3) To establish baseline data to asses future sustainability by avoiding interruption in environment that are more difficult to handle and their correction requires high cost.
- 4) To bring out status report on environment compliance.

## Methodology

In order to perform green audit, the methodology included different tools such as preparation of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key person and data analysis, measurement and recommendations. The study covered the following areas to summarize the present status of environment management in the campus.

- 1) Water Management.
- 2) Energy Management
- 3) Landscape/Environment Construction
- 4) Transportation
- 5) Capacity Building and Knowledge transfer.



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# Water Management

This indicator addresses water consumption, water sources, irrigation, stormwater, appliances

Wise use of Water	Water Leakage repair	Use of water Purification	Rain Water Harvest	Use of Water Cooler	Water Pollution incidence	Water use per day in liters	Water Storage	Water Tank Cleaning
✓	✓	✓	✓	✓	X	3000 Liter	7000 Liter	✓

and fixtures. A water audit is an onsite survey and assessment to determine the water use and hence improving the efficiency of its use.

## A) Observation

The study observes that bore well and water provided by Nashik Municipal Corporation are the two major sources of water. Water is used for drinking purpose, toilets and gardening. During the survey no loss of water is observed. Neither by any leakages nor by overflows of water from overhead tanks. The data collected from all the four departments is examined and verified. On an average, the total use of water in the college is 1000 liter per day which includes drinking and washrooms.

## B) Recommendations

- ❖ Need of monitoring, controlling overflow is essential and periodically supervision drill should be arranged. In campus medium scale reused and recycle of water system is necessary.
- ❖ Minimize wastage of water and use of electricity during water filtration process should be used.

  
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**Tap & Wash Basin**



**Water Tank**

  
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## E – Waste Management

E- Waste can be described as consumer and business and electronic equipment that is near or at the end of useful life. Electronic components contain cadmium, lead, mercury, etc can damage human health and the environment.

## Observation

E waste generated in the campus is very less in quantity. The cartridge of laser printers is outside the college campus. The E waste and defective items from computer laboratory is being stored properly. The inverter battery is changed one time in three to four years and the computers are also changed in.

## Recommendations

1. Reduce the absolute amount of waste which is produced from the college staff and office.
2. Make full use of all recycling facility provided by Nashik Municipal Corporation and private supplier, including glass, cans, white, coloured and brown paper, plastic bottles batteries, print cartridge, cardboard and furniture provides sufficient accessible and well publicized collectionpoint for recyclable waste and responsibility for recycling should be clearly allotted.
3. Recycle or safely dispose of white goods, computer and electrical appliances. Buy back policy is also implemented for the purchases.

  
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## Resources and Energy Management

Number of Tubes Compact Florescent Lights, incandescent	No. of air Conditioners	LED/LCD Monitors	Use of Generators	Promotion of Energy Conservation Practices	Average A4 sheet of paper per day	Overall Energy Management
30	0	1	1	Yes	35	Average

This indicator addresses energy consumption, energy sources, energy monitoring, lighting appliances, natural gas and vehicles. Energy used is clearly an importance aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment.

## Observation

1. Energy source utilized by all departments and common facility centre is electricity only. Total energy consumption is determined as 13.2 KW year by major energy consuming equipments.
2. All the departments and common facility centers are equipped with LED lamps approximately –150 are counted during survey. Besides this 04 are also installed in the outskirts of the college.
3. Equipments like computers are used with power saving mode. Campus administration runs switch off drill on regular basis.

  
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## Recommendations

1. In order to create awareness among the students and the staff regarding energy conservation various programmes, activities and workshops like street Plays, videos about awareness, Poster Competition, etc should be organized by the college.
2. Use of solar energy is essential in college campus.



**Inverter In College**

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## Landscape/Environment/Construction

A sustainable landscape is designed to be both attractive and in balance with the local climate and environment and it should require minimal resource inputs. Thus, the design must be "functional, cost-efficient, visually pleasing, environmentally friendly and maintainable" As part of the concept called sustainable development it pays close attention to the preservation of limited and costly resources, reducing waste and preventing air, water and soil pollution.

Tree Cover	Type of Building :	Paint user for walls :	Flouring Tiles :
	Concrete/stone walled/metal sheet roofing/Clay tile roofing		Stone/Mosaic Tiles/Cement/Proc
800Sq.Ft.	Concrete Building Cement Sheet Roofing	Synthetic Distempers	External: Cement Flouring, Cement Tiles

  
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## Transportation

Transportation is a huge consumer of energy and resources and also a major source of environment pollution (basically air pollution). People tend to use motorized vehicle even for the short distances because of inconvenience and unsafe conditions for bicycling. This leads excessive use of fuel. Limiting the motorized transportation to a defined boundary is required to control the fuel usage and also to reduce site air and noise pollution. Green vehicles are very much energy efficient, pollution free and convenient mode for short vehicles are very much energy efficient, pollution free and convenient mode for short transportation promotes use of such efficient vehicles by adequate provisions. Eco-friendly transportation is beneficial for the users as it keeps environment free of pollution and possess healthy living conditions.

Parking Area	Staff Members using two Wheelers %	Staff Members using bicycles %	Staff members using public transport %	Staff members using pooling cars %	Staff using four wheelers %
4000Sq.Ft.	4%	5%	80%	NIL	NIL

## Observation

The parking area of the college is 4000 sq. ft. Staff members use two wheelers that is 4% of the staff. Staff members use bicycle that is 5% of the staff. Staff members are use public transport is 80%. Staff members don't use any vehicle. Instead, they prefer walking.

  
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## Recommendations

1. At least one day should be declared as No Vehicle Day in the Week.
2. The more and more members should use carpooling.
3. The staff residing in nearby areas should be encouraged to use bicycles.

## Capacity building and knowledge transfer

Environmental Education in syllabus	Eco Club	Ethics Committee	Extension Activity related to environment	Extra credits for green practices
YES	YES	YES	YES	NO

Environmental education in syllabus is prescribed by the university for SYBCOM and SYBA students. Eco Club is established by environment department. Ethics committee is also established by student Development Council. The committee inculcate moral values among the student's Extension activities related to environment are conducted by NSS, SDC and environment committee. Almost all the students of our college come by public vehicle and bicycles so this is the best practice in the college.

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## Green Area

This includes the plants, greenery and sustainability of the campus to ensure that the buildings conform to green standards. This also helps in ensuring that the environmental policy is enacted, enforced and reviewed using various environmental awareness program.

Flowers	Croton	Earthen Pots	others	Medicine	Total
10	5	10	12	2	39

## Recommendations

1. Review periodically the list of trees planted in the garden.
2. Mention scientific terms/ titles to the trees.
3. Ensure that audit is conducted annually and action is taken on the basis of audit report, Recommendation and findings.
4. Celebrate 05th June as Environment Day every year and undertake tree plantation on this Day to make the campus greener.

  
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## Plants



*B3* **Trees**  
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*Puli*  
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## Environment Committee 2020-21

From the academic year 2018 Environment has been functioning in the College. The structure of this committee is as per following.

**President :** Principal Mr.Nitin Gorkshnath Waman

**Co-ordinator :** Mr.L.K.Muthe

**Members :** Mr.S.S.Jagtap

Mr.G.S.Layare

Mrs.N

Mr.V.R.Bagav

**Various activities conducted by this committee.**

- Regular Activity :
- Watering Plant
- Saving the Energy in Campus
- Keep the Campus Clean

  
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# Ethics Committee 2020-21

From 2018 Ethics committee has been functioning in the college. The structure of this committee is as per following.

**President : Principal Mr.N.G.Waman**

**Co-ordinator : B. S. More**

L. S. Ahire

V. S. Ghorpade

S. S. Jagtap

M. R. Sargar

**Student Members :**

Roshan Bhangare

Mansi Ghuge

Rupali Jakhere

Surabh Joshi

Namdev Pardhi

Various activities conducted by this committee. Some regular activities and some occasional activities.

**Regular Activities :**

- Conducting Regular Prayer
- Conducting Regular Anthem
- Overall discipline in the College.

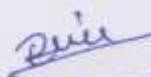
**Occasional Activities :**

- All Programmes relating birth and death Anniversary of the great personality are conducted
- Soft Skill Development Programme



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Every Day Prayer



Yoga, Safety & Security Lesson for girls students

  
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### Ethics And Values



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### “Pani Adwa-Pani Jirwa” Programme

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**Clean Village & Temple**



**Swacch Bharat Abhiyan**

  
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## Conclusion

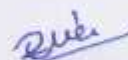
Considering the fact that institution is predominantly under graduate and post graduate college there is significant activities done both by faculties and student.

The environment awareness initiatives are substantial. The paperless work system are noteworthy. Besides environment awareness programme initiated by the administration shows how the campus is going green. Few recommendation added about the energy use.



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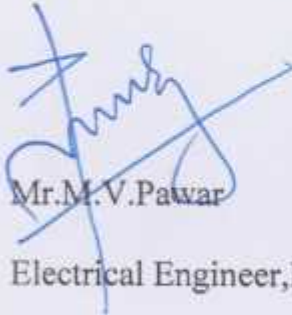
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Mr. M. V. Pawar

Electrical Engineer, Igatpuri Municipal Council

Swachh Maharashtra Mission Nodal Officer.





Mr. Mangesh Sonar

Office Superintendent,

Igatpuri Municipal Council.



  
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